

Turkish Journal of Zoology

Turkish Journal

of

Zoology

Accumulation of Metal and Metal Mixture in the Spleen, Brain and Muscle Tissues of *Tilapia nilotica*

Murat KARAKOÇ, Ferit KARGIN

Çukurova Üniversitesi, Fen-Edebiyat Fakültesi, Biyoloji Bölümü, Adana-TÜRKİYE

Abstract: Accumulation of zinc and copper in the spleen, brain and muscle tissues of *Tilapia nilotica* was investigated by using copper (0.1, 0.5 and 1.0 ppm) and zinc (1.0, 5.0 and 10.0 ppm) and copper-zinc mixture (0.1+1.0, 0.5+5.0 and 1.0+10.0 ppm) in the medium for the periods of 30 and 60 days. No mortality was observed during the exposure to of copper, zinc and copper-zinc mixtures over 60 days. In both cases (alone and mixture) the highest levels of zinc and copper were accumulated in the spleen, whereas accumulation was the lowest in the brain. Accumulation of a metal in the tissues decreased in the presence of the other metal.

Key Words: Heavy metal accumulation, Copper-Zinc mixture, Fish

 [Keywords](#)
[Authors](#)



zool@tubitak.gov.tr

[Scientific Journals Home Page](#)

Turk. J. Zool., **23**, (1999), 719-724.

Full text: [pdf](#)

Other articles published in the same issue: [Turk. J. Zool., vol.23, iss.EK2.](#)